

Title (en)

DIGITAL HOLOGRAPHIC MICROSCOPE WITH FLUID SYSTEMS

Title (de)

DIGITALES HOLOGRAFISCHES MIKROSKOP MIT FLUIDSYSTEME

Title (fr)

MICROSCOPE HOLOGRAPHIQUE NUMÉRIQUE AYANT DES SYSTÈMES DE FLUIDE

Publication

EP 2898310 B1 20190501 (EN)

Application

EP 13770649 A 20130920

Priority

- EP 12185229 A 20120920
- EP 2013069625 W 20130920
- EP 13770649 A 20130920

Abstract (en)

[origin: WO2014044823A1] The current invention concerns a fluid microscope system for analyzing and/or monitoring the contents of one or more fluid-based reactors or canalizations such as bio-reactors, micro-reactors, brewing reactors, water supply systems or sewer systems, comprising a digital holographic microscope (DHM) capable of obtaining phase information of a fluid sample and comprising illumination means and one or more fluidic systems connected to said reactors and to said DHM, capable of guiding fluid from said reactors to said DHM, whereby at least one fluidic system comprises one or more tubes which may come in direct contact with fluid from said reactor, characterized in that at least one tube comprises a part which is at least partially transparent for the illumination means of said DHM for obtaining holographic information of said fluid sample. The current invention also concerns a tube and a fluidic system for such a fluid microscope.

IPC 8 full level

G01N 21/05 (2006.01); **G01N 15/14** (2006.01); **G03H 1/00** (2006.01)

CPC (source: EP US)

B01L 3/502715 (2013.01 - US); **B01L 3/50273** (2013.01 - US); **C12M 41/36** (2013.01 - EP US); **G02B 21/0016** (2013.01 - US); **G02B 21/26** (2013.01 - US); **G03H 1/0005** (2013.01 - US); **G03H 1/0443** (2013.01 - EP US); **B01L 3/5027** (2013.01 - EP US); **B01L 2200/025** (2013.01 - US); **B01L 2200/143** (2013.01 - US); **B01L 2300/0654** (2013.01 - US); **B01L 2300/0864** (2013.01 - US); **B01L 2300/0877** (2013.01 - US); **B01L 2300/088** (2013.01 - US); **B01L 2300/123** (2013.01 - US); **B01L 2300/168** (2013.01 - US); **B01L 2400/0481** (2013.01 - US); **G03H 2001/005** (2013.01 - EP US); **G03H 2001/0204** (2013.01 - EP US)

Citation (examination)

US 2008242556 A1 20081002 - CAO HAN [US], et al

Cited by

WO2021094536A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2014044823 A1 20140327; EP 2898310 A1 20150729; EP 2898310 B1 20190501; HK 1212768 A1 20160617; US 2015248109 A1 20150903; US 9904248 B2 20180227

DOCDB simple family (application)

EP 2013069625 W 20130920; EP 13770649 A 20130920; HK 16100538 A 20160119; US 201314429616 A 20130920